

FOURIER TRANSFORM MICROWAVE SPECTROSCOPY OF ARGON CHLOROCYCLOBUTANE

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The microwave spectrum of chlorocyclobutane was reported in 1966^a. We have measured the microwave spectrum of argon chlorocyclobutane as part of our on-going research on bonding and dynamics of four-membered ring containing van der Waals complexes. Preliminary results show that the four-membered ring remains puckered in the complex. An analysis based partially on the nuclear quadrupole coupling projections of the ³⁵Cl nucleus will be presented.

^aH. Kim and W. D. Gwinn *J. Chem. Phys.* **44**, 865, (1966)